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AN EVALUATION OF ACQUIRED DATA AS A TOOL FOR MANAGEMENT OF WILDLIFE  
HABITAT IN ALASKA

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1 March 1973

Type I Progress Report for Period 1 January 1973 - 28 February 1973

(E73-10335) AN EVALUATION OF ACQUIRED DATA AS A TOOL FOR MANAGEMENT OF WILDLIFE HABITAT IN ALASKA Progress Report, 1 (Bureau of Sport Fisheries and Wildlife) 3 p HC \$3.00	N73-19336 Unclas 00335
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Prepared for:

Goddard Space Flight Center  
Greenbelt, Maryland 20771

Publication authorized by the Director, Bureau of Sport Fisheries and  
Wildlife

## Type I Progress Report

ERTS-A

- a. Title: An Evaluation of Space Acquired Data as a Tool For Management of Wildlife Habitat in Alaska (SR 235)
- b. GSFC User ID No. I 077
- c. Statement and explanation of any problems that are impeding the progress of the investigation:
- d. Discussion of the accomplishments during the reporting period and those planned for the next reporting period:

A coordinated approach to ground and aircraft operations for data acquisition was put into effect.

Meetings with Federal and State agencies were held by the P. I. in January and February to develop a coordination effort among several Federal and State agencies in Alaska. Specific flight lines for areas of interest were submitted by the agencies and later prioritized to expedite aircraft operations planned for this summer.

Contact was made with Navy Photo Squadron VQ-1 on Guam to assist in the summer's work. Letters were prepared for the Director's and Secretary's signatures requesting Navy assistance in the aircraft operations.

Also resolved, temporarily, was the location of a central user facility in Anchorage. It was unanimously agreed among the 13 agencies attending the January and February meetings that the Bureau of Sport Fisheries and Wildlife should serve as the interim user facility.

All ERTS data for Alaska is now on file there, and the half time services of a BSFW biologist were dedicated to operation of the facility. He also will coordinate contract services for aircraft operation during the summer.

- e. Discussion of significant scientific results and their relationship to practical applications or operational problems including estimates of the cost benefits of any significant results (To be prepared in scientific abstract form of 200 words or less):

Density sliced and digitized imagery of the Kuskokwin/Yukon Delta were analyzed. Color coded images of the isodensity displays were compared with existing vegetation maps of the ERTS frame for the Yukon/Kuskokwin area.

A high degree of positive correlation was found to exist between the ERTS image and the conventionally prepared maps.

Hydrologic phenomena were also analyzed. Digitization on South Dakota State Remote Sensing Center's "SADE" system provide some discrimination among several large lakes in the subject area. However, interpretation must await ground observations and depth measurements. An Attempt will be made to classify large water bodies by depth classes.

f. A listing of published articles, and/or papers, pre-prints, in-house reports, abstracts of talks, that were released during the reporting period: None

g. See e.

h. None

i. None

j. None

k. Not applicable